



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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**Examiner:** Unknown

**For:      A Method of Depositing  
            Low K Barrier Layers**

BA SA  
Signature

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

Applicants certify that all references submitted with this disclosure were first cited in a communication from a foreign patent office dated June 18, 2004, which communication is enclosed, not more than three months prior to the filing of this Supplemental Information Disclosure Statement.

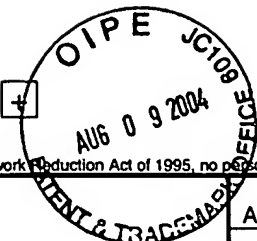
If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/6392.C1/BKH.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "B K Hrna", is written over a horizontal line.

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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

Application Number

10/828,411

Filing Date

APRIL 20, 2004

First Named Inventor

XIA, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/6392.C1/DSM/LOW K/JW

Submission Date

August 5, 2004

## **U.S. PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                    | A1                    | US-6,365,527 BA1                         | 04/02/2002                     | Yang, et al.                                       |                                                                                 |
|                    | A2                    | US-2002/0155386 A1                       | 10/24/2002                     | Xu, et al.                                         |                                                                                 |
|                    | A3                    | US-                                      |                                |                                                    |                                                                                 |
|                    | A4                    | US-                                      |                                |                                                    |                                                                                 |
|                    | A5                    | US-                                      |                                |                                                    |                                                                                 |
|                    | A6                    | US-                                      |                                |                                                    |                                                                                 |
|                    | A7                    | US-                                      |                                |                                                    |                                                                                 |
|                    | A8                    | US-                                      |                                |                                                    |                                                                                 |
|                    | A9                    | US-                                      |                                |                                                    |                                                                                 |
|                    | A10                   | US-                                      |                                |                                                    |                                                                                 |
|                    | A11                   | US-                                      |                                |                                                    |                                                                                 |
|                    | A12                   | US-                                      |                                |                                                    |                                                                                 |
|                    | A13                   | US-                                      |                                |                                                    |                                                                                 |
|                    | A14                   | US-                                      |                                |                                                    |                                                                                 |
|                    | A15                   | US-                                      |                                |                                                    |                                                                                 |
|                    | A16                   | US-                                      |                                |                                                    |                                                                                 |
|                    | A17                   | US-                                      |                                |                                                    |                                                                                 |
|                    | A18                   | US-                                      |                                |                                                    |                                                                                 |

## **FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document                                                           | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages or<br>Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|-----------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|----------------|
|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |                                                    |                                                                                 |                |
|                    | B1                    | EP 0 935 283 A2                                                                   | 08/11/1999                     | Matsuki, et al.                                    |                                                                                 |                |
|                    | B2                    | EP 1 122 770 A2                                                                   | 08/08/2001                     | Shiota, et al.                                     |                                                                                 |                |
|                    | B3                    | DE 41 26 759 A1 (English Abstract)                                                | 02/18/1993                     | Roth, et al.                                       |                                                                                 | X              |
|                    | B4                    |                                                                                   |                                |                                                    |                                                                                 |                |

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|------------------------|--|---------------------------|--|
| Substitute for form 1449B/PTO<br><br><b>SUPPLEMENTAL<br/>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |   |    |   | Application Number     |  | 10/828,411                |  |
|                                                                                                                                                                |   |    |   | Filing Date            |  | APRIL 20, 2004            |  |
|                                                                                                                                                                |   |    |   | First Named Inventor   |  | XIA, ET AL.               |  |
|                                                                                                                                                                |   |    |   | Group Art Unit         |  | UNKNOWN                   |  |
|                                                                                                                                                                |   |    |   | Examiner Name          |  | UNKNOWN                   |  |
|                                                                                                                                                                |   |    |   | Attorney Docket Number |  | AMAT/6392.C1/DSM/LOW K/JW |  |
| Sheet                                                                                                                                                          | 2 | of | 2 | Submission Date        |  | August 5, 2004            |  |

| NON PATENT LITERATURE DOCUMENTS |                       |                                                                                                                                                                                                                                                                |                |
|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>2</sup> |
|                                 | C1                    | PCT International Search Report for PCT/US2004/000374, dated June 18, 2004 (AMAT/7653.PCT)                                                                                                                                                                     |                |
|                                 | C2                    | TAKASHI NAKAMURA, "Synthesis of Amorphous Films from Phenylsilanes by Plasma Chemical Vapor Deposition" Makromol. Chem. 189, pp. 1315-1322 (1988)                                                                                                              |                |
|                                 | C3                    | V. CECH, ET AL. "Thin Plasma-Polymerized Films of Dichloro(Methyl)Phenylsilane" Czechoslovak Journal of Physics, Vol. 50 (2000), Suppl. S3 pp. 356-364.                                                                                                        |                |
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| Examiner | Date Considered |
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